

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	Christa-Wohriska.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:39
S2	4	Wohriska-Christa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:39
S3	6	("4773567"   "4921142"   "4944429").PN. OR ("6364166").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 07:41
S4	21	("3591128"   "3721423"   "3827605"   "3860149"   "4566611").PN. OR ("4773567").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 08:19
S5	6	(("6257461") or ("6427876") or ("5938125")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 09:19
S6	263	(222/384).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 09:19
S7	9	("3401843").URPN.	USPAT	OR	ON	2006/08/08 09:25
S8	10	("3178077"   "3262607"   "3401843"   "3462045").PN. OR ("3628699").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:26
S9	10	("3276641").URPN.	USPAT	OR	ON	2006/08/08 09:31
S10	460	(222/321.7).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 09:31
S11	8	("4773553"   "5299703"   "5562219").PN. OR ("6315169").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:38
S12	205	(222/321.2).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 09:38

## EAST Search History

S13	11	("3520499"   "4017007"   "5337740"   "5469989"   "5683361"   "5813570").PN. OR ("5967369").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:40
S14	14	("3500761"   "4082222"   "4189064"   "4941595").PN. OR ("5025958").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:42
S15	41	("3061202"   "3761022"   "3865313"   "3921861"   "4051983"   "4077548"   "4077549"   "4082222"   "4089442"   "4124148"   "4183449"   "4186855"   "4189064"   "4198756"   "4228931"   "4274560"   "4821928"   "4936492"   "4941595"   "4944432"   "5011046"   "5025958"   "5064105"   "5088649"   "5092495"   "5115980"   "5176296").PN. OR ("5388766").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:43
S16	13	("3994442"   "4071196"   "4076174"   "4260110"   "4322037"   "4979678"   "5064122"   "5269495"   "5388766").PN. OR ("5711488").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:44
S17	27	("2219178"   "2503481"   "2974880"   "3169670"   "3692245"   "3881658"   "4071196").PN. OR ("4260110").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:46
S18	9	("1431526"   "2921741"   "3129893").PN. OR ("4076174").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:48
S19	14	("3774849"   "4061247"   "4140249"   "4591076"   "4607765"   "4856677"   "4941595"   "4991746"   "5064105"   "5388766").PN. OR ("5697530").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:50
S20	41	("3061202"   "3761022"   "3865313"   "3921861"   "4051983"   "4077548"   "4077549"   "4082222"   "4089442"   "4124148"   "4183449"   "4186855"   "4189064"   "4198756"   "4228931"   "4274560"   "4821928"   "4936492"   "4941595"   "4944432"   "5011046"   "5025958"   "5064105"   "5088649"   "5092495"   "5115980"   "5176296").PN. OR ("5388766").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 09:50
S21	18	("3500761").URPN.	USPAT	OR	ON	2006/08/08 10:01

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S22	792	(222/182).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:44
S23	17	("3185350"   "3257044"   "3698604"   "4095725").PN. OR ("4513890").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:14
S24	12	("3185349").URPN.	USPAT	OR	ON	2006/08/08 13:15
S25	651	(222/548).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 13:15
S26	14	("3118578").URPN.	USPAT	OR	ON	2006/08/08 13:22
S27	44	("20010002012"   "20010027957"   "20020158037"   "3074579"   "3118578"   "3223269"   "4289248"   "4387822"   "4442947"   "4545499"   "4640430"   "4697716"   "4770308"   "4781311"   "5096083"   "5100009"   "5100013"   "5133471"   "5145080"   "5169033"   "5275287"   "5462186"   "5549213"   "5593055"   "5622865"   "5630522"   "5673809"   "5676270"   "5803286"   "5871111"   "5915574"   "5915579"   "6041953"   "6123212"   "6126027"   "6241111"   "6338414"   "6491175"   "6502710"   "6679359"   "6695161").PN. OR ("6889857").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:22
S28	28	("1873337"   "2537226"   "2700484"   "2717727"   "2884164"   "3118578").PN. OR ("4162749").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:26
S29	19	("3170633"   "3217986"   "3363808"   "4162749"   "4186882"   "4223842"   "4396152"   "4415122"   "5042697"   "5183186"   "5197638"   "5273191"   "5301846"   "5318205").PN. OR ("6050504").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:27
S30	13	("3102691"   "3933179"   "3940069"   "5183186"   "5318205"   "5372310"   "6012650"   "6050504").PN. OR ("6267304").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:27

## EAST Search History

S31	33	("3148127"   "3389837"   "3705667"   "4020979"   "4061252").PN. OR ("4396152").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:34
S32	52	("2581262"   "2806739"   "2881808"   "2913154"   "3045877"   "3053459"   "3098589"   "3166250"   "3404863"   "3506165"   "3506241"   "3545720"   "3547405"   "3583608"   "3589571"   "3627263"   "3635379"   "3658294"   "3674186"   "3731847"   "3735955"   "3785536"   "3830412"   "4019687"   "4133461"   "4247025"   "4275840"   "4328911"   "4354621"   "4390160"   "4393984"   "4396152"   "4416398"   "4493444"   "4969577"   "5027985"   "5037012").PN. OR ("5605258").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:36
S33	21	("2764453"   "3401845"   "3421692"   "3421699"   "3425059"   "3606159"   "3751210"   "3910501").PN. OR ("4223842").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:42
S34	8	("3724762"   "4135670"   "4219159"   "4223842"   "4350298"   "4646973").PN. OR ("4738398").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:43
S35	501	(222/562).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:21
S36	1	("3178071").URPN.	USPAT	OR	ON	2006/08/08 14:28
S37	11	("2989251").URPN.	USPAT	OR	ON	2006/08/08 14:30
S38	19	("0580151"   "1485143"   "1786844"   "2733103"   "2989251"   "3326473"   "3337135"   "3911858"   "4389003"   "4584147"   "4970865").PN. OR ("6637673").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:31
S39	11	("2989251"   "3319894"   "4253609"   "5213269"   "5743468").PN. OR ("6367711").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:33
S40	12	("2989251"   "3033473"   "3074601"   "3327908"   "3570770").PN. OR ("3912132").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:36
S41	14	("2789012"   "2989251"   "3083917"   "3158326"   "3319894").PN. OR ("3743189").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:38

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S42	14	("2789012"   "2989251"   "3083917"   "3158326"   "3319894").PN. OR ("3743189").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:39
S43	286	(239/463).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:40
S44	224	(239/468).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:40
S45	674	(239/333).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:40
S46	720	(239/337).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:40
S47	34	(239/474).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:41
S48	127	(239/490).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:41
S49	126	(239/491).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:41
S50	381	(239/524).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:42
S51	10	("3545682"   "4182496"   "4257561"   "4884750"   "5439178"   "5454494"   "5769325"   "5842616"   "5855322").PN. OR ("6722585").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:49

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S52	28	("3840157"   "3990639"   "4036439"   "4182496"   "4260110"   "4678123"   "5540389"   "5711488"   "5738282").PN. OR ("5931386").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:53
S53	14	("3275248"   "3785571"   "4051983"   "4706888"   "5152463"   "5547132"   "5593094").PN. OR ("5738282").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:59
S54	165	(239/492).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:20
S55	12	("3254807"   "3685933"   "3963153"   "4079865"   "4162742"   "5054692"   "5657907"   "5738251"   "5755384"   "5813570"   "5992704").PN. OR ("6257461").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 09:37
S56	264	(222/384).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S57	484	(222/321.7).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S58	209	(222/321.2).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S59	800	(222/182).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S60	505	(222/562).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S61	301	(239/463).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46

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S62	227	(239/468).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S63	698	(239/333).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S64	743	(239/337).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:12
S65	34	(239/474).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S66	129	(239/490).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:26
S67	127	(239/491).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S68	386	(239/524).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S69	165	(239/492).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:46
S70	14166826	S56 S57 S58 S59 s "25" S60 S61 S62 S63 S64 S65 S66 S67 S69 S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58

## EAST Search History

S71	54014	S70 and (annular with channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S72	254756	S70 and (annular with spac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S73	9778	S70 and (annular with flow with channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S74	656	(222/548).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 09:58
S75	5288	S56 S57 S58 S59 S74 S60 S61 S62 S63 S64 S65 S66 S67 S69 S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S76	212	S75 and (annular with channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S77	519	S75 and (annular with spac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S78	49	S75 and (annular with flow with channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 09:58
S79	3	("3703994"   "5593094"   "5676311").PN. OR ("6533196").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 09:59

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S80	19	("3061202"   "3762647"   "3840157"   "3995774"   "4161288"   "4174069"   "4189064"   "4358057"   "4767060"   "5397060").PN. OR ("5593094").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:00
S81	15	("3275248"   "3785571"   "4051983"   "4706888"   "5152463"   "5547132"   "5593094").PN. OR ("5738282").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:02
S82	30	("3840157"   "3990639"   "4036439"   "4182496"   "4260110"   "4678123"   "5540389"   "5711488"   "5738282").PN. OR ("5931386").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:03
S83	38	("2887273"   "3083872"   "3176888"   "3209960").PN. OR ("3703994").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:12
S84	86	(239/594).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:12
S85	258	(239/394).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:12
S86	105	(239/397).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:12
S87	108	(239/472).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:14
S88	10	("3545682"   "4182496"   "4257561"   "4884750"   "5439178"   "5454494"   "5769325"   "5842616"   "5855322").PN. OR ("6722585").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:30
S89	5225	(239/461-524).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:31
S90	14	("3075708"   "3083917"   "3319894"   "3482784").PN. OR ("3652018").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:32

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S91	11	("3319894").URPN.	USPAT	OR	ON	2007/03/27 10:40
S92	7	("3075708").URPN.	USPAT	OR	ON	2007/03/27 10:53
S93	2	("6053433").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 10:53
S94	19	("4313569"   "4623337"   "4694977"   "4944430"   "4946452"   "4981479"   "5024355"   "5133702"   "5238156"   "5320845"   "5358179"   "5370317"   "5401259"   "5613957").PN. OR ("6053433"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 10:54